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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH15**
Sheet 1 of 4
REFERENCE No **H13335**

PROJECT Centenary Bridge Upgrade
LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore
COORDINATES 494748.63 E; 6955102.90 N
PROJECT No FG18012
SURFACE RL -10.54m
PLUNGE 90°
DATE STARTED 12/02/2019
GRID DATUM MGA94 56J
JOB No 498/05038
HEIGHT DATUM m AHD
BEARING
DATE COMPLETED 15/02/2019
DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	GROUP SYMBOL / WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (EC VC C M W VW)	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0					SAND with gravel (Alluvium) Grey, wet, very loose. 70% fine to medium grained sand, sub-angular, well graded. 30% fine gravel, sub-angular grains.		(SW)				
1				A						3, hw, 1 N=1	SPT
										1.70m-1.75m: Environmental sample 'A2"	
2	-12.64				Gravelly SAND (Alluvium) Grey, wet, very loose. 66% medium to coarse grained sand. 34% fine to coarse grained gravel, sub-rounded to sub-angular. Interbedded Sandy GRAVEL bands.						
				B						2, 1, 1 N=2	SPT
3										2.70m-2.75m: Environmental Sample 'B2'	
				C	3.3-3.7m: Gravel and sand becoming coarse, medium dense.					4, 4, 30/150mm MC=13.9% <75µm= 2%	SPT
4										3.70m-3.75m: Environmental Sample 'C2'	
				D	4.3-4.75m: Trace oversize cobbles.		SP			7, 7, 13 N=20	SPT
5										4.70m-4.75m: Environmental sample 'D2'	
				E	5.3-5.75m: Gravels becoming dominant 80% gravel, 20% sand.					8, 7, 8 N=15	SPT
6										5.70m-5.75m: Environmental sample 'E2'	
				F	6.3-6.75m: Gravels becoming medium to coarse.					10, 13, 13 N=26	SPT
7										6.70m-6.75m: Environmental sample 'F2'	
	-17.84			G	GRAVEL with sand (Alluvium) Grey to pale brown, wet, medium dense. 75% fine to coarse, grained gravels, sub rounded to angular.		(GW)			24, 30/90mm	SPT
										7.50m-7.54m: Environmental sample 'G2"	
8	-18.54										
	-18.74		(0)		25% coarse sand, poorly graded, subangular to subrounded. From 7.3m: Gravels becoming dominantly coarse.		(CH) MW			8.00m: No sample recovery, material inferred from end of drill casing. 8.20m: Js: 30°-50° (4/m), Ro, TI, Fe Stn, Cly Vr Js: 70°-90° (4/m), Ro, TI, Fe Stn, Cly Vr Ss: 70° (1/m), 15mm thick, Ro, OP, Cly Ct	hb Is(50)=1.30 MPa Is(50)=0.05 MPa D (8.65m) A (8.66m)
9			100 (0)		Sandy CLAY (Residual) Pale grey to brown, wet, hard. 60% clay, high plasticity 40% fine grained sand, sub-rounded, poorly sorted.		HW MA				
	-20.54				ARGILLITE (DCf)						Is(50)=0.09 MPa D (9.85m) A (9.86m)

REMARKS: Barge deck at 2.81 m AHD, 13.35 m measured from barge deck to river bed

LOGGED BY	REVIEWED BY
B. Knight/E. Maxwell	S. Foley

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH15**

Sheet 2 of 4

REFERENCE No **H13335**

PROJECT Centenary Bridge Upgrade

LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore

COORDINATES 494748.63 E; 6955102.90 N

PROJECT No FG18012 | SURFACE RL -10.54m | PLUNGE 90° | DATE STARTED 12/02/2019 | GRID DATUM MGA94 56J

JOB No 498/05038 | HEIGHT DATUM m AHD | BEARING | DATE COMPLETED 15/02/2019 | DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	MATERIAL DESCRIPTION	GROUP SYMBOL / WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11		100 (0)	ARGILLITE (DCf) MA: Pale grey, fine grained, weakly foliated, medium to high strength. Some low strength intervals > 100mm thick. Thin quartz veining present.	MA	Is(50)=0.41 MPa 11.00m-11.50m: Highly fractured.	
	-22.24	100 (0)				
12			ARGILLITE (DCf) SA: Pale to dark grey, fine grained, medium to high strength. Thinly laminated with siltstone and clasts of greywacke. Some low strength zones with clay seams, thin quartz veining throughout.	SA	11.70m: Js: 50°-70° (6/m), Ro, TI, Cly Stn Js: 70°-90° (4/m), Ro, TI, Cly Stn Xs: 70° (<1/m), TI, Cly Vr	
13		100 (0)			Is(50)=1.10 MPa Is(50)=0.58 MPa UCS=7.80 MPa	D (12.60m) A (12.61m) (12.80m)
14		100 (0)		XA	13.65m-14.00m: Clay seam.	
15		100 (0)		SA		
16		100 (0)		HA		
17		100 (0)		SA	UCS=7.85 MPa E=9.48 GPa Is(50)=0.52 MPa Is(50)=0.43 MPa	(17.30m) D (17.40m) A (17.42m)
18	-28.49	100 (0)	METAGREYWACKE (DCf) SA: Pale to dark grey, fine grained, mostly high strength, thinly laminated with Argillite.	HA SA	17.95m: Js: 0°-20° (4/m), Ro, TI, Cly Vr Js: 30°-50°(7/m), Ro, TI, Cly Vr Js: 50°-70° (2/m), Ro, TI, Cly Stn Js: 90° (3/m), Ro, TI, Cly Vr Xs: 90° (1/m), Ro, OP, Cly Ct	
19		100 (0)		FR	Is(50)=0.67 MPa Is(50)=0.58 MPa	D (19.60m) A (19.61m)
	-30.54				20.00m-20.15m: Cly BZ.	

REMARKS: Barge deck at 2.81 m AHD, 13.35 m measured from barge deck to river bed

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH15**
Sheet 3 of 4
REFERENCE No **H13335**

PROJECT Centenary Bridge Upgrade
LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore
COORDINATES 494748.63 E; 6955102.90 N
PROJECT No FG18012
SURFACE RL -10.54m
PLUNGE 90°
DATE STARTED 12/02/2019
GRID DATUM MGA94 56J
JOB No 498/05038
HEIGHT DATUM m AHD
BEARING
DATE COMPLETED 15/02/2019
DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	GROUP SYMBOL / WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (EC VC C M W VW)	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
21			100 (0)		METAGREYWACKE (DCf) SA: Continued.		XA				
							MA			20.70m-20.80m: Cly BZ.	
			100 (0)							21.00m-22.00m: Cly BZ.	
							HA				
22											
							MA			Is(50)=0.50 MPa Is(50)=0.88 MPa	A (22.01m) D (22.22m)
			100 (0)								
23							SA			Is(50)=0.93 MPa Is(50)=0.44 MPa	D (23.25m) A (23.26m)
24			100 (0)				MA				
25										UCS=9.15 MPa	(24.90m)
			100 (0)				SA			Is(50)=0.12 MPa Is(50)=0.27 MPa	D (25.35m) A (25.37m)
26			100 (0)							26.10m-26.90m: Cly BZ,	
							HA				
							MA				
							XA				
27			100 (0)				SA			Is(50)=0.72 MPa Is(50)=0.64 MPa	D (27.04m) A (27.06m)
28	-38.74		100 (0)				XA			28.03m-28.20m: Cly BZ, 28.20m: Js: 80°-90° (4-7/m). Ro, Tl, Cn Js: 50°-70° (3-5/m), VRo, Tl, Cn 28.25m-29.00m: Partially silicified.	
					METAGREYWACKE (DCf) SA: Pale grey, fine grained, high to very high strength, thin laminations of Argillite, weakly foliated, high to very high strength. Stockwork quartz veining throughout and partial silicification.		SA				
29			100 (0)							Is(50)=2.20 MPa Is(50)=1.90 MPa	D (29.65m) A (29.66m)
	-40.54										

REMARKS: Barge deck at 2.81 m AHD, 13.35 m measured from barge deck to river bed

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B. Knight/E. Maxwell	S. Foley

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS
REFER TO TMR FORM F:GEOT 017/10 - 2019

BOREHOLE No **BH15**
Sheet 4 of 4
REFERENCE No **H13335**

PROJECT Centenary Bridge Upgrade
LOCATION Brisbane River, Jindalee, M5 Centenary Motorway, Jindalee to Kenmore
COORDINATES 494748.63 E; 6955102.90 N
PROJECT No FG18012
SURFACE RL -10.54m
PLUNGE 90°
DATE STARTED 12/02/2019
GRID DATUM MGA94 56J
JOB No 498/05038
HEIGHT DATUM m AHD
BEARING
DATE COMPLETED 15/02/2019
DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	GROUP SYMBOL / WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (EC VC C M W VW)	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
31			100 (0)		METAGREYWACKE (DCf) SA: continued.		SA	M, VC, C, C, C		Is(50)=0.51 MPa Is(50)=0.15 MPa	D (30.87m) A (30.88m)
32								M, VC, C			
33			100 (0)					M, H, C, M		Is(50)=0.49 MPa Is(50)=1.30 MPa	D (32.37m) A (32.38m)
34	-45.24		100		Borehole completed at 34.70 m			C		Is(50)=0.55 MPa Is(50)=0.33 MPa	D (34.05m) A (34.06m)
35											
36											
37											
38											
39											

REMARKS: Barge deck at 2.81 m AHD, 13.35 m measured from barge deck to river bed

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GEOTECHNICAL SECTION

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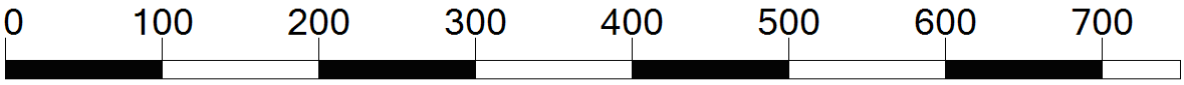
Project Name	**Centenary Bridge Upgrade - Geotechnical Investigation**		
Project No.	FG18012	Date	12-15/2/2019
Borehole No.	BH15	Reference No.	H13336
Location	Brisbane River, Jindalee	Start Depth (m)	8.20
Submitted By	M. Hayes	Finish Depth (m)	34.70



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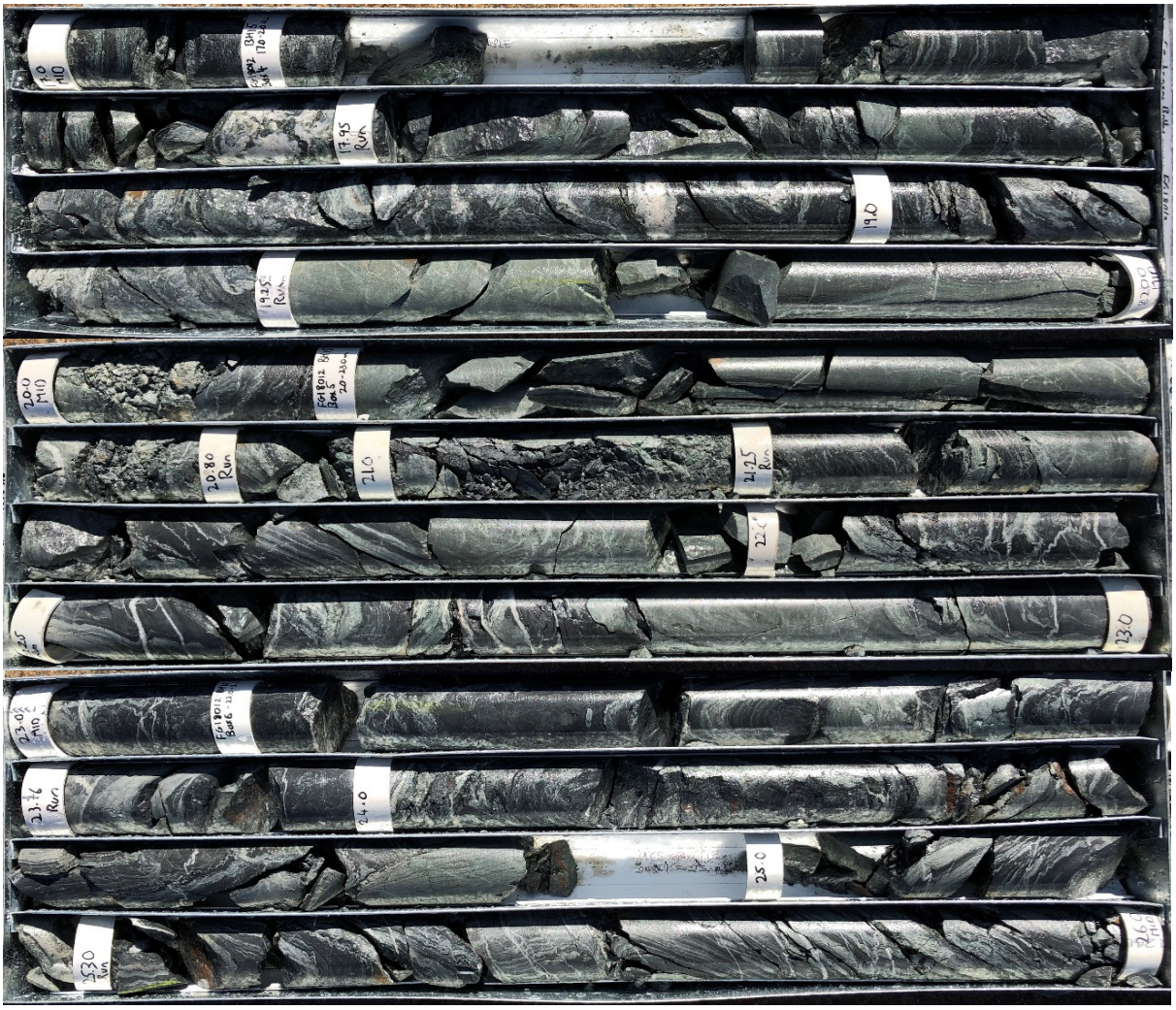
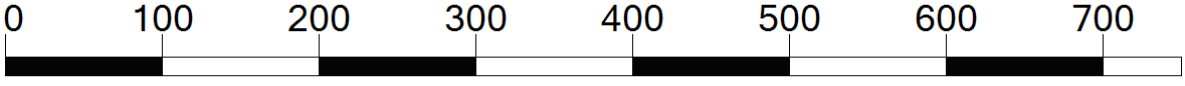
GEOT043/3

CORE PHOTO LOG
DEPARTMENT OF TRANSPORT AND MAIN ROADS
GEOTECHNICAL SECTION

Queensland Government

Project Name	**Centenary Bridge Upgrade - Geotechnical Investigation**		
Project No.	FG18012	Date	12-15/2/2019
Borehole No.	BH15	Reference No.	H13336
Location	Brisbane River, Jindalee	Start Depth (m)	8.20
Submitted By	M. Hayes	Finish Depth (m)	34.70





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GEOTECHNICAL SECTION

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Project Name	**Centenary Bridge Upgrade - Geotechnical Investigation**		
Project No.	FG18012	Date	12-15/2/2019
Borehole No.	BH15	Reference No.	H13336
Location	Brisbane River, Jindalee	Start Depth (m)	8.20
Submitted By	M. Hayes	Finish Depth (m)	34.70

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